# Vegetation Unit Summaries for **Gentemann Property (GENT)**

'\*' = non-native invasive species Report date: 7/29/2009

Visit data as of: 7/29/2009

# **Unit GENT\*001**

Size: 1.73 Acres

**NVCS Class:** Herbaceous

**NVCS Subclass:** Perennial graminoid vegetation

**NVCS Group:** Temperate grassland with a sparse tree layer

**NVCS SubGroup:** Natural / Semi-natural **NVCS Ecological System:** unknown

**Landform:** Broad flat > 600' **Slope:** Gentle (5 to 10%)

**Aspect:** Southeast

**Notes:** 

Visit date: 9/3/2003

Ecological Health: Severely Degraded.

% Tree canopy: 20%

% Non-Native Cover: not recorded

**General Note:** 

## **Management Note:**

## **Eco Note:**

Unit is an old home site dominated by invasive blackberry and grasses.

**Primary Management concerns:** Invasives, Soil Compaction, Litter, Hardscape Infrastructure, Informal Trails.

# **Visit Species:**

1	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Rubus discolor (Himalayan blackberry)	50% to 75%	Y			
Agrostis sp. (bentgrass)	20% to 50%	Y			
Pseudotsuga menziesii (Douglas fir)	10% to 20%		20-30"		
Abies grandis (grand fir)	1% to 10%		10-20"	Y	
Alnus rubra (red alder)	1% to 10%		5-10"		
Acer macrophyllum (bigleaf maple)	1% to 10%		0-5"	Y	
Malus sp. (cultivated apple tree)	1% to 10%		0-5"		
Crataegus monogyna (European hawthorn)	1% to 10%				
Epilobium angustifolium (fireweed)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Holcus lanatus (velvet grass)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Phalaris arundinacea (reed canarygrass)	1% to 10%				
Rhododendron macrophyllum (rhododendron)	1% to 10%				
Senecio jacobaea (tansy ragwort)	1% to 10%				
Vinca major (bigleaf periwinkle)	1% to 10%				
Betula pendula (European white birch)	trace		0-5"		
Populus balsamifera ssp. trichocarpa (black cott	trace		0-5"	Y	
Cirsium arvense (Canadian Thistle)	trace				
Daucus carota (Queen Anne's lace)	trace				

Size: 3.52 Acres NVCS Class: Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Broad flat > 600'

**Slope:** Flat (0 to 5%) **Aspect:** Northeast

**Notes:** 

Visit date: 9/3/2003

**Ecological Health:** Poor. **% Tree canopy:** 80%

**% Non-Native Cover:** not recorded

**General Note:** 

## **Management Note:**

Remove PRAV starts next to the large mother tree.

## **Eco Note:**

Appears that this unit receives a lot of human use despite the absence of formal trails. Near the road is a lot of litter, trampling, and larger refuse.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

**Primary Management concerns:** Invasives, Trampling, Litter, Large Refuse, Hardscape Infrastructure, Informal Trails.

## **Visit Species:**

-	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Thuja plicata (western red cedar)	20% to 50%	Y	20-30"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Rubus spectabilis (salmonberry)	20% to 50%	Y			
Pseudotsuga menziesii (Douglas fir)	10% to 20%		20-30"		
Berberis nervosa (Oregon grape)	10% to 20%				
Tolmiea menziesii (piggy-back plant)	10% to 20%				
Acer macrophyllum (bigleaf maple)	1% to 10%		10-20"	Y	
Alnus rubra (red alder)	1% to 10%		10-20"		
Prunus avium (sweet pie cherry)	1% to 10%		10-20"	Y	
Acer circinatum (vine maple)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Pteridium aquilinum (bracken fern)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Athyrium filix-femina (ladyfern)	trace				
Digitalis purpurea (purple foxglove)	trace				
Gaultheria shallon (salal)	trace				
Geranium robertianum (herb-Robert)	trace				
Osmorhiza chilensis (mountain sweet-cicely)	tra	ce			
Rhamnus purshiana (cascara)	trace				
Rubus discolor (Himalayan blackberry)	trace				

## Unit GENT\*004

Size: 4.21 Acres

**NVCS Class:** Woodland

NVCS Subclass: Deciduous woodland NVCS Group: Cold-deciduous woodland NVCS SubGroup: Natural / Semi-natural **NVCS Ecological System:** CES204.844 Oregonian-Vancouverian Maritime Western Hemlock

## Forest

**Landform:** Side-hill, Middle 3rd

**Slope:** Gentle (5 to 10%)

**Aspect:** Southeast

**Notes:** 

## Visit date: 9/3/2003

**Ecological Health:** Poor. **% Tree canopy:** 50%

**% Non-Native Cover:** not recorded

## **General Note:**

Unit borders a busy road on the north edge--road/house border the east and west sides. Invasive problem severe on north edge. Lots of litter along road.

## **Management Note:**

Serious intervention needed for RUDI, ILAQ and HEHE on north end of unit in order to prevent it from coming down farther in the park.

#### **Eco Note:**

Unit is a south facing gentle slope toward a perennial stream running west to east through the north part of the park.

Wetland indicators: Hydrophilic Vegetation.

**Primary Management concerns:** Invasives, Litter.

# **Visit Species:**

visit species.					
	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Rubus discolor (Himalayan blackberry)	20% to 50%	Y			
Rubus ursinus (trailing blackberry)	20% to 50%	Y			
Alnus rubra (red alder)	10% to 20%		10-20"		
Thuja plicata (western red cedar)	10% to 20%		10-20"	Y	
Polystichum munitum (sword fern)	10% to 20%				
Populus balsamifera ssp. trichocarpa (black cott	1% to 10%		20-30"		
Pseudotsuga menziesii (Douglas fir)	1% to 10%		10-20"		
Acer circinatum (vine maple)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Cornus sericea ssp. sericea (red-osier dogwood)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Crataegus monogyna (European hawthorn)	1% to 10%				
Galium triflorum (sweet-scented fragrant Bedstra	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Amelanchier alnifolia (serviceberry)	trace				
Carex deweyana (Dewey sedge)	trace				
Carex hendersonii (Henderson's wood sedge)	trace				
Oemleria cerasiformis (Indian-plum)	trace				
Physocarpus capitatus (Pacific ninebark)	trace				
Spiraea douglasii (Douglas' spiraea)	trace				
Tellima grandiflora (fringecup)	trace				
Vaccinium parvifolum (red huckleberry)	trace				

## Unit GENT\*005

Size: 7.86 Acres NVCS Class: Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Side-hill, Middle 3rd

**Slope:** Gentle (10 to 20%)

**Aspect:** North

Visit date: 8/28/2003

**Ecological Health:** Fair. **% Tree canopy:** 70%

**% Non-Native Cover:** not recorded

**General Note:** 

Wide trail/road meanders through unit. Several houses have access trails running into park.

#### **Management Note:**

RUDI is well established on north edge near road--its removal might preserve the south reaches of the park.

## **Eco Note:**

Unit consists of a gently sloping sidehill dominated by ACMA3. A creek runs east/west through unit--water is very clear and supports many tree frogs and slugs.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

**Primary Management concerns:** Invasives, Litter, Large Refuse, Informal Trails. **Visit Species:** 

-	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Rubus spectabilis (salmonberry)	20% to 50%	Y			
Populus balsamifera ssp. trichocarpa (black cott	10% to 20%		20-30"	Y	
Alnus rubra (red alder)	10% to 20%		5-10"		
Galium aparine (cleavers)	10% to 20%				
Rubus discolor (Himalayan blackberry)	10% to 20%				
Urtica dioica (stinging nettle)	10% to 20%				
Thuja plicata (western red cedar)	1% to 10%		20-30"	Y	
Acer circinatum (vine maple)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Carex deweyana (Dewey sedge)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Smilacina stellata (starry false-Solomon's seal)	1% to 10%				
Stachys cooleyae (Cooley's hedgenettle)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Fraxinus latifolia (Oregon ash)	trace		5-10"		
Prunus avium (sweet pie cherry)	trace		5-10"		
Asarum caudatum (wild ginger)	trace				
Digitalis purpurea (purple foxglove)	trace				
Hedera helix (English ivy)	trace				

# Unit GENT\*006

Size: 5.73 Acres NVCS Class: Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

**Landform:** Side-hill, Middle 3rd

**Slope:** Steep (20 to 30%)

**Aspect:** North

Visit date: 8/28/2003

**Ecological Health:** Fair. **% Tree canopy:** 75%

**% Non-Native Cover:** not recorded

**General Note:** 

Paintball activity heavy in this unit--soil compaction, dug out bunkers, left over paintballs, trash, vandalism on trees, and many informal trails. Ground fort like structure created near top (south edge) of unit.

Someone is dumping their trash (garbage, kid's swimming pools, lawn chairs) off road (top southern edge

# **Management Note:**

of this unit).

Clean up refuse, trash and paintball impact. Remove ILAQ bushes.

#### **Eco Note:**

Structure of the unit is healthy with few invasives but a lot of litter from garbage dumping off road. Paintball impact is highest in THPL grove near just down (north) of road. Lots of frogs near stream channel.

Wetland indicators: Hydrophilic Vegetation, Flood Debris, Water Marks, Saturated Soils.

Primary Management concerns: Invasives, Trampling, Soil Compaction, Litter, Large Refuse, Yard Debris, Informal Trails.

## **Visit Species:**

•	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Thuja plicata (western red cedar)	20% to 50%	Y	20-30"	Y	
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Rubus spectabilis (salmonberry)	20% to 50%				
Galium aparine (cleavers)	10% to 20%				
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"		
Tsuga heterophylla (western hemlock)	1% to 10%		20-30"		
Alnus rubra (red alder)	1% to 10%		5-10"		
Acer circinatum (vine maple)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Stachys cooleyae (Cooley's hedgenettle)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Achlys triphylla (vanillaleaf)	trace				
Adiantum pedatum (maidenhair fern)	trace				
Hedera helix (English ivy)	trace				
Ilex aquafolium (English holly)	trace				
Pteridium aquilinum (bracken fern)	trace				
Rosa gymnocarpa (dwarf wood rose)	trace				
Vancouveria hexandra (white inside-out-flower)	trace				

## **Unit GENT\*008**

Size: 7.47 Acres
NVCS Class: Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Side-hill, Middle 3rd

**Slope:** Gentle (5 to 10%)

**Aspect:** North

**Notes:** 

Visit date: 9/3/2003

**Ecological Health:** Fair. **% Tree canopy:** 75%

**% Non-Native Cover:** not recorded

**General Note:** 

Evergreen unit with heavy human impact of trash and vandalism.

**Management Note:** 

Remove ILAQ and RUDI form unit in north. Clean up trash thrown into stream (crate, tires, etc.) Humans are greatly impacting this park in a negative way--solutions?? Maybe a neighborhood watch or a Friends of Gentemann.

## **Eco Note:**

Perennial stream runs through unit north and then turns east. This ravine is full of frog and plant diversity and structure is good with some downed wood and snags.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Flood Debris, Saturated Soils, Standing Flowing Water.

**Primary Management concerns:** Invasives, Litter, Large Refuse, Informal Trails. **Visit Species:** 

_	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Thuja plicata (western red cedar)	20% to 50%	Y	20-30"	Y	
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"	Y	
Pseudotsuga menziesii (Douglas fir)	10% to 20%		10-20"		
Berberis nervosa (Oregon grape)	10% to 20%				
Geranium robertianum (herb-Robert)	10% to 20%				
Polystichum munitum (sword fern)	10% to 20%				
Rubus spectabilis (salmonberry)	10% to 20%				
Populus balsamifera ssp. trichocarpa (black cott	1% to 10%		10-20"		
Tsuga heterophylla (western hemlock)	1% to 10%		10-20"	Y	
Acer circinatum (vine maple)	1% to 10%				
Achlys triphylla (vanillaleaf)	1% to 10%				
Alnus rubra (red alder)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Galium aparine (cleavers)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Stachys cooleyae (Cooley's hedgenettle)	1% to 10%				
Tiarella trifoliata (foamflower)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Vaccinium parvifolum (red huckleberry)	1% to 10%				
Adiantum pedatum (maidenhair fern)	trace				
Lactuca muralis (wall lettuce)	trace				
Vancouveria hexandra (white inside-out-flower)	trace				

# Unit GENT\*009

Size: 2.14 Acres NVCS Class: Forest

**NVCS Subclass:** Evergreen forest

**NVCS Group:** Temperate needle-leaved evergreen forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

**Landform:** Side-hill, Middle 3rd

**Slope:** Gentle (5 to 10%)

**Aspect:** North

Visit date: 8/28/2003

**Ecological Health:** Fair. **% Tree canopy:** 80%

**% Non-Native Cover:** not recorded

**General Note:** 

Road impacting unit--trash heavy along road.

**Management Note:** 

Remove ILAQ and RUDI.

**Eco Note:** 

Unit is a corridor of THPL running along road. Trees are large and understory diverse but becoming dominated by invasives.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter, Informal Trails.

**Visit Species:** 

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Thuja plicata (western red cedar)	50% to 75%	Y	20-30"	Y	
Galium aparine (cleavers)	20% to 50%	Y			
Geranium robertianum (herb-Robert)	20% to 50%	Y			
Polystichum munitum (sword fern)	10% to 20%	Y			
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"	Y	
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"		
Acer circinatum (vine maple)	1% to 10%				
Achlys triphylla (vanillaleaf)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Lactuca muralis (wall lettuce)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Rubus spectabilis (salmonberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Lonicera ciliosa (western orange honeysuckle)	trace				
Philadelphus lewisii (Lewis' mockorange)	trace				

# Unit GENT\*010

Size: 1.33 Acres
NVCS Class: Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Side-hill, Middle 3rd

**Slope:** Gentle (10 to 20%)

**Aspect:** North

**Notes:** 

Visit date: 9/3/2003

**Ecological Health:** Good. **% Tree canopy:** 80%

**% Non-Native Cover:** not recorded

**General Note:** 

## **Management Note:**

Remove SOAU and ILAQ from unit.

#### **Eco Note:**

Unit is a conifer patch along the road without a high shrub layer.

# **Primary Management concerns:** Invasives, Litter.

# **Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		
Thuja plicata (western red cedar)	20% to 50%	Y	20-30"	Y	
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Smilacina stellata (starry false-Solomon's seal)	10% to 20%	Y			
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Sorbus aucuparia (European mountain ash)	trace		0-5"		
Digitalis purpurea (purple foxglove)	trace				
Ilex aquafolium (English holly)	trace				
Rubus parviflorus (thimbleberry)	trace				

# Unit GENT\*011

Size: 4.3 Acres

**NVCS Class:** Woodland

**NVCS Subclass:** Mixed evergreen-deciduous woodland

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous woodland

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Side-hill, Middle 3rd

**Slope:** Steep (20 to 30%)

**Aspect:** North

Notes:

Visit date: 9/3/2003

**Ecological Health:** Fair. **% Tree canopy:** 60%

% Non-Native Cover: not recorded

**General Note:** 

Heavy use by public---paintball games and vandalism. A cedar tree has been cut down, as well as others that have been cut into--structures have been created out of dirt and sticks for paintball bunkers.

## **Management Note:**

Paintballers are doing a lot of damage to this park--make it off limits to the public, or at least paintballing??

#### **Eco Note:**

Deciduous patch of ACMA, ALRU and POBAT. Stream in southwest corner runs through unit. There are also streams on the north and east boundaries. Low plant diversity with not very much downed wood and snags.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Flood Debris, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Invasives, Litter, Large Refuse, Vandalism, Informal Trails. Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"	Y	
Rubus spectabilis (salmonberry)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%				
Populus balsamifera ssp. trichocarpa (black cott	1% to 10%		20-30"		
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"		
Thuja plicata (western red cedar)	1% to 10%		10-20"	Y	
Acer circinatum (vine maple)	1% to 10%				
Alnus rubra (red alder)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Galium aparine (cleavers)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Vaccinium parvifolum (red huckleberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Adiantum pedatum (maidenhair fern)	trace				
Carex deweyana (Dewey sedge)	trace				

# **Unit GENT\*012**

Size: 3.66 Acres NVCS Class: Forest

NVCS Subclass: Deciduous forest NVCS Group: Cold-deciduous forest NVCS SubGroup: Natural / Semi-natural

**NVCS Ecological System:** CES204.846 North Pacific Broadleaf Mesic Seral Forest

**Landform:** Side-hill, Middle 3rd

**Slope:** Steep (20 to 30%)

**Aspect:** Northeast

**Notes:** 

Visit date: 9/3/2003

**Ecological Health:** Fair. **% Tree canopy:** 70%

**% Non-Native Cover:** not recorded

**General Note:** 

## **Management Note:**

Lower part of unit has a dense RUDI understory coming up from the road - may want to manage.

#### **Eco Note:**

Unit has very few high shrubs in the understory.

Species of interest - LOIN

Wetland indicators: Hydrophilic Vegetation.

**Primary Management concerns:** Invasives, Litter, Informal Trails.

**Visit Species:** 

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Polystichum munitum (sword fern)	50% to 75%	Y			
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"		
Alnus rubra (red alder)	20% to 50%	Y	10-20"		
Thuja plicata (western red cedar)	10% to 20%		10-20"	Y	
Galium aparine (cleavers)	10% to 20%				
Populus balsamifera ssp. trichocarpa (black cott	1% to 10%		20-30"		
Berberis nervosa (Oregon grape)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus spectabilis (salmonberry)	1% to 10%				
Streptopus amplexifolius (clasping-leaf twisted-	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Pseudotsuga menziesii (Douglas fir)	trace		0-5"	Y	
Digitalis purpurea (purple foxglove)	trace				
Geranium robertianum (herb-Robert)	trace				
Ilex aquafolium (English holly)	trace				
Lonicera ciliosa (western orange honeysuckle)	trace				
Lonicera involucrata (black four-line twinberry)	trace				
Urtica dioica (stinging nettle)	trace				

## Unit GENT\*013

Size: 10.32 Acres NVCS Class: Forest

NVCS Subclass: Deciduous forest NVCS Group: Cold-deciduous forest NVCS SubGroup: Natural / Semi-natural

**NVCS Ecological System:** CES204.846 North Pacific Broadleaf Mesic Seral Forest

**Landform:** Side-hill, Middle 3rd

**Slope:** Gentle (10 to 20%)

**Aspect:** North

Visit date: 9/2/2003

Ecological Health: Good. % Tree canopy: 80%

**% Non-Native Cover:** not recorded

**General Note:** 

Unit was in good health. Species diversity was a little lower, unit was lacking the presence of a substantial high shrub layer.

# **Management Note:**

Unit was impacted from the road. These impacts were not a major problem yet and should be monitored to maintain health of unit.

#### **Eco Note:**

Unit was large and functioning in a healthy manner. Several drainages ran through this unit. There was less of a high shrub layer in this unit than others.

Wetland indicators: Hydrophilic Vegetation, Water Marks.

Primary Management concerns: Invasives.

# **Visit Species:**

	COVER CLASS	DOMINANT.	DBH	REGENERATING	PLANTED
Polystichum munitum (sword fern)	50% to 75%	Y			
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Tsuga heterophylla (western hemlock)	1% to 10%		20-30"	Y	
Alnus rubra (red alder)	1% to 10%		10-20"		
Thuja plicata (western red cedar)	1% to 10%		5-10"	Y	
Berberis nervosa (Oregon grape)	1% to 10%				
Galium aparine (cleavers)	1% to 10%				
Smilacina racemosa (false Solomon's-seal)	1% to 10%				
Geranium robertianum (herb-Robert)	trace				
Hedera helix (English ivy)	trace				
Ilex aquafolium (English holly)	trace				
Rosa gymnocarpa (dwarf wood rose)	trace				
Rubus spectabilis (salmonberry)	trace				
Rubus ursinus (trailing blackberry)	trace				
Urtica dioica (stinging nettle)	trace				
Vaccinium parvifolum (red huckleberry)	trace				
Viola glabella (stream violet)	trace				

# Unit GENT\*014

Size: 2.84 Acres NVCS Class: Forest

**NVCS Subclass:** Evergreen forest

**NVCS Group:** Temperate needle-leaved evergreen forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

**Landform:** Side-hill, Middle 3rd

**Slope:** Gentle (5 to 10%) **Aspect:** Northwest

Visit date: 9/2/2003

**Ecological Health:** Good. **% Tree canopy:** 80%

**% Non-Native Cover:** not recorded

**General Note:** 

This unit consisted of a strip of THPL that bordered the road and ran up to the first driveway which was the edge of the natural area.

## **Management Note:**

There were some invasives that needed to be removed, the worst being a patch of POCU6 at the top of the unit right by the driveway at edge of unit.

#### **Eco Note:**

The THPL stand was well established and healthy.

Wetland indicators: Hydrophilic Vegetation, Water Marks.

**Primary Management concerns:** Invasives, Litter.

**Visit Species:** 

COVER CLASS DOMINANT DBH REGENERATING PLANTED

Thuja plicata (western red cedar)	20% to 50% Y	10-20"	Y
Polystichum munitum (sword fern)	20% to 50% Y		
Pseudotsuga menziesii (Douglas fir)	10% to 20%	10-20"	
Berberis nervosa (Oregon grape)	10% to 20%		
Corylus cornuta (western beaked hazelnut)	10% to 20%		
Rubus spectabilis (salmonberry)	10% to 20%		
Alnus rubra (red alder)	1% to 10%	10-20"	
Acer macrophyllum (bigleaf maple)	1% to 10%	5-10"	Y
Acer circinatum (vine maple)	1% to 10%		
Geranium robertianum (herb-Robert)	1% to 10%		
Ilex aquafolium (English holly)	1% to 10%		
Oemleria cerasiformis (Indian-plum)	1% to 10%		
Rubus parviflorus (thimbleberry)	1% to 10%		
Rubus ursinus (trailing blackberry)	1% to 10%		
Tolmiea menziesii (piggy-back plant)	1% to 10%		
Adiantum pedatum (maidenhair fern)	trace		
Athyrium filix-femina (ladyfern)	trace		
Hedera helix (English ivy)	trace		
Lactuca muralis (wall lettuce)	trace		
Polygonum cuspidatum (Japanese knotweed)	trace		

Size: 6.43 Acres NVCS Class: Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

**Landform:** Side-hill, Middle 3rd **Slope:** Extremely Steep (over 30%)

**Aspect:** North

**Notes:** 

Visit date: 9/3/2003

**Ecological Health:** Fair. **% Tree canopy:** 70%

% Non-Native Cover: not recorded

**General Note:** 

Large metal tank and barrel dumped on edge of creek. Tires and trash abundant near edge of road that travel through park. Larger and possibly more signs indicating that there is a \$1,000 fine for dumping is needed.

## **Management Note:**

Invasives low, GERO pretty common throughout with traces of HEHE, SOAU, RUDI and ILAQ. The biggest management issue for this side of the park is cleaning up the copious amount of trash just off the road.

# **Eco Note:**

Unit includes a perennial stream running north, cutting through a somewhat steep ravine. Plant diversity and structure is high with several stumps, snags and large downed wood. Measured a THPL at 58" DBH.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Flood Debris, Saturated Soils, Standing Flowing Water.

# **Primary Management concerns:** Invasives, Litter, Large Refuse, Utility Infrastructure. **Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Polystichum munitum (sword fern)	50% to 75%	Y			
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Thuja plicata (western red cedar)	20% to 50%	Y	10-20"	Y	
Rubus spectabilis (salmonberry)	10% to 20%	Y			
Pseudotsuga menziesii (Douglas fir)	10% to 20%		10-20"		
Tsuga heterophylla (western hemlock)	10% to 20%		5-10"	Y	
Berberis nervosa (Oregon grape)	10% to 20%				
Geranium robertianum (herb-Robert)	10% to 20%				

Acer circinatum (vine maple)	1% to 10%	
Corylus cornuta (western beaked hazelnut)	1% to 10%	
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%	
Ilex aquafolium (English holly)	1% to 10%	
Rubus discolor (Himalayan blackberry)	1% to 10%	
Rubus ursinus (trailing blackberry)	1% to 10%	
Sambucus racemosa (red elderberry)	1% to 10%	
Smilacina stellata (starry false-Solomon's seal)	1% to 10%	
Tolmiea menziesii (piggy-back plant)	1% to 10%	
Vaccinium parvifolum (red huckleberry)	1% to 10%	
Sorbus aucuparia (European mountain ash)	trace	0-5"
Adiantum pedatum (maidenhair fern)	trace	
Asarum caudatum (wild ginger)	trace	
Athyrium filix-femina (ladyfern)	trace	
Hedera helix (English ivy)	trace	
Lactuca muralis (wall lettuce)	trace	
Vancouveria hexandra (white inside-out-flower)	trace	

Size: 4.63 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-

Western Hemlock Forest

**Landform:** Side-hill, Middle 3rd **Slope:** Extremely Steep (over 30%)

**Aspect:** Northeast

**Notes:** 

Visit date: 9/3/2003

**Ecological Health:** Good. **% Tree canopy:** 80%

**% Non-Native Cover:** not recorded

**General Note:** 

Saw a snake, found a deer skull with antlers. Several deer trails throughout the unit.

## **Management Note:**

CLVI is in upper area of stream bed, mostly young plants.

## **Eco Note:**

Unit is in good condition except for the few invasives.

Species of interest - LOIN - in several locations in upper (southeast corner) of unit.

Wetland indicators: Hydrophilic Vegetation.

**Primary Management concerns:** Invasives, Informal Trails.

## **Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	20-30"		
Corylus cornuta (western beaked hazelnut)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Tsuga heterophylla (western hemlock)	10% to 20%		20-30"	Y	
Thuja plicata (western red cedar)	10% to 20%		10-20"		Y
Berberis nervosa (Oregon grape)	10% to 20%				
Alnus rubra (red alder)	1% to 10%		10-20"	Y	
Pseudotsuga menziesii (Douglas fir)	1% to 10%		10-20"		
Acer circinatum (vine maple)	1% to 10%				
Clematis vitalba (clematis)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Osmorhiza chilensis (mountain sweet-cicely)	1% t	to 10%			
Rhamnus purshiana (cascara)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus spectabilis (salmonberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Ilex aquafolium (English holly)	trace				

Size: 2.8 Acres **NVCS Class:** Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.845 North Pacific Dry Douglas-fir Forest and Woodland

Landform: Side-hill, Middle 3rd

**Slope:** Gentle (10 to 20%)

**Aspect:** North

Visit date: 8/28/2003

**Ecological Health:** Good. % Tree canopy: 65%

**% Non-Native Cover:** not recorded

**General Note:** 

Unit was located at south end of natural area.

## **Management Note:**

Unit was in good health. ILAQ was spotty and needs to be removed now before it becomes a bigger problem.

#### **Eco Note:**

Unit had all layers present unlike other units in natural area. Health and function of area seemed to be good. Area was full of creek drainages.

Wetland indicators: Water Marks.

**Primary Management concerns:** Invasives.

# **Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Alnus rubra (red alder)	20% to 50%	Y	10-20"		
Berberis nervosa (Oregon grape)	20% to 50%	Y			
Corylus cornuta (western beaked hazelnut)	10% to 20%	Y			
Pseudotsuga menziesii (Douglas fir)	10% to 20%		20-30"		
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"	Y	
Populus balsamifera ssp. trichocarpa (black cott	1% to 10%		10-20"		
Acer circinatum (vine maple)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Vaccinium parvifolum (red huckleberry)	1% to 10%				
Holodiscus discolor (oceanspray)	trace				
Sambucus racemosa (red elderberry)	trace				

## Unit GENT\*050

Size: 2.83 Acres **NVCS Class:** Forest

**NVCS Subclass:** Mixed evergreen-deciduous forest

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous forest

**NVCS SubGroup:** Natural / Semi-natural

NVCS Ecological System: CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Canyon bottom < 600'

**Slope:** Gentle (10 to 20%)

**Aspect:** Northeast

Visit date: 9/3/2003

**Ecological Health:** Fair. **% Tree canopy:** 70%

% Non-Native Cover: not recorded

**Management Note:** 

RUDI2 dominates near the road, may want to eradicate.

**Eco Note:** 

Unit is a stream channel/bottom. Channel is not well defined but rather wide and mellow.

Wetland indicators: Hydrophilic Vegetation.

**Primary Management concerns:** Invasives, Informal Trails.

**Visit Species:** 

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	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"		
Corylus cornuta (western beaked hazelnut)	20% to 50%	Y			
Rubus spectabilis (salmonberry)	20% to 50%	Y			
Thuja plicata (western red cedar)	10% to 20%		10-20"	Y	
Acer circinatum (vine maple)	10% to 20%				
Polystichum munitum (sword fern)	10% to 20%				
Rubus discolor (Himalayan blackberry)	10% to 20%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Osmorhiza chilensis (mountain sweet-cicely)	1%	to 10%			
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Asarum caudatum (wild ginger)	trace				